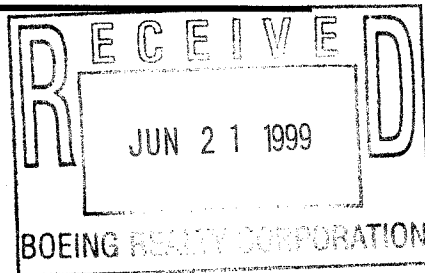


Paul V. Sundberg

Project Consultant

3846 Estate Drive Stockton, CA 95209 Ph & Fx: 209/474-3617

138



June 16, 1999

Mr. Jeffrey Dhont
Environmental Protection Agency, Region IX
Mail Code H-7-1
75 Hawthron Street
San Francisco, CA 94105

Re: Abandonment Procedure for Monitoring Well G-10

Dear Mr Dhont:

On behalf of Montrose Chemical Corporation of California, please find attached for your review information related to the abandonment procedure planned for Montrose's monitoring well G-10 located on the Boeing property undergoing re-development north of the Montrose property near Torrance, California. As you know, Boeing Realty Corporation, acting through its consultant Integrated Environmental Services, has recently asked that well G-10 be removed to make way for the construction of a road and utility corridor.

Although Boeing has asked for the well to be abandoned on an expedited schedule (requesting that the well be abandoned no later than June 28th), Montrose advised Boring that since the well is part of a Superfund program overseen by EPA, Montrose could not proceed with abandoning the well without coordination with your office. In parallel with that advisory, Montrose has requested quotations for removal of the well from three qualified contractors familiar with the Montrose program. We have recently reviewed the proposals and have determined that Earth Tech's proposal appears to satisfy all of requirements for the project. To assist Boeing's project schedule to the extent possible and per our previous conversations, I have attached for your review a copy of Earth Tech's proposal which details the process proposed for abandoning the well.

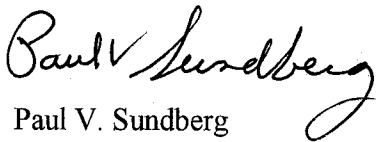
As you review the proposal, you will note that in addition to abandoning the well, we are planning to sample it prior to abandonment. Although sampling of the well is not required by Los Angeles County requirements, we thought it would be worthwhile as the well has not been sampled for many years. Current data from this sampling would be used in the future to determine if the well needs to be replaced for a future monitoring program, and if so, where it should be located. However, you will note that although the sampling is intended to be accomplished under existing protocols, full QA samples are not proposed. The primary reason is that since only one sample is to be taken and the data will be used only for guidance during a remedial design, many of the traditional QA samples typically used for a large sampling program would be of little added value to this effort.

For the actual abandonment process, I trust you will find that the proposal follows a conventional procedures for such a task and meets all local requirements. Please be advised that since the attachment is in the form of a proposal, there are a number of assumptions listed. Should field conditions be encountered that are different than anticipated, adjustments will be made in the scope of work to achieve the objectives and regulatory requirements for the project.

To facilitate your review and per your request, I have also faxed this letter and the attachment to your contractor, CH2M-Hill. Upon the conclusion of your review, please advise me of any comments or concerns you may have. Montrose also requests that some form of written agreement be provided that indicates EPA's concurrence to remove the well and that the procedures proposed for the removal of the well meet (as written or as revised per your request) applicable standards.

Should you have any questions, do not hesitate to call me or should your question be of a technical nature related to the abandonment proceed proposed, please feel free to call Eric Peterson directly at Earth Tech (562-951-2053).

Sincerely yours,



Paul V. Sundberg
Project Consultant

Cc: Frank Bachman - Montrose - Bainbridge Island
Robert Howard - Latham & Watkins - San Diego
Eric Peterson - Earth Tech - Long Beach
Hooshang Nezafati - CH2M-Hill - Santa Ana
Mario Stavale - Boeing Realty Corp - Long Beach

June 14, 1999

Mr. Paul V. Sundberg
3846 Estate Drive
Stockton, California 95209

Subject: **Price Quotation for Well Sampling and Abandonment (No. G-10)**
Montrose Superfund Site
Los Angeles, California

Dear Mr. Sundberg:

Earth Tech, Inc. is pleased to submit this price quotation for well sampling and abandonment services associated with the Montrose Superfund Site in Los Angeles, California. The subject well (G-10) is located on the adjacent property to the north owned by Boeing/McDonnell-Douglas. The property owner has requested that the well be abandoned to accommodate property redevelopment activities. Earth Tech will purge and sample well G-10, a groundwater monitoring well screened into the Gage Aquifer, using conventional means. Following sampling, the well will be abandoned in accordance with Los Angeles County standards. The proposed scope of work includes the following:

Task 1: Planning and Permitting

An application for well abandonment will be submitted to the Los Angeles County Department of Health Services. Earth Tech will prepare the permit application and provide the permit fee. Prior to the start of work, Dig-Alert and the on-site construction contractor will be notified in advance of the field activity. Dig-Alert notification is required under State law.

Task 2: Groundwater Well Sampling

Well G-10 will be gauged to measure static groundwater level, purged, and sampled following accepted protocols. The well will be gauged using an electronic interface probe prior to purging and sampling. The depth to water will be measured relative to the top of the well casing. A minimum of three well volumes will be purged from well G-10 prior to sampling. During well purging, the groundwater parameters, temperature, pH, and specific electrical conductivity will be monitored. Well purging will continue until the groundwater parameters stabilize (readings within 10 percent) or until three well volumes are extracted. Well purging will be performed using the existing dedicated submersible pump (if functional). The well purge water will be contained in five steel Department of Transportation (DOT) approved drums and relocated to the Montrose property pending disposal. Following profiling, the drums will be transported under signed manifest for treatment as a non-hazardous waste. Water sampling will be performed once the water level in the well returns to at least 80 percent of its static level. Water samples will be collected using a clean single-use disposal bailer and laboratory-supplied containers. Each sample container will be clearly labeled to identify the well name, date and time of collection, sampler name, analysis, and sample preservative. Samples will be stored in a cooler and delivered to a state-certified laboratory. No duplicate samples, trip blanks, or equipment rinsate blanks are proposed for this sampling effort. The well



A tyco INTERNATIONAL LTD. COMPANY

samples will be analyzed for dissolved volatile organics and parachlorobenzene sulfonic acid (p-CBSA) following EPA Methods 8260 and 300.0 (ion chromatography), respectively. All field activities will be performed in accordance with the existing Earth Tech Health and Safety Plan and Hargis & Associates Quality Assurance Plan.

Task 3: Well Abandonment

Earth Tech will abandon monitoring well G-10 in accordance with Los Angeles County Department of Health Services standards. An exclusion zone will be established for well G-10 using cones and caution tape. The dedicated submersible pump will be removed from the well and stored at the Montrose property. The well box and steel monument cover will be removed to access the well casing. Bentonite grout will be pumped under pressure into the well casing via a tremie pipe to seal the sand pack void spaces, well screen, and well casing to 5 feet below grade. The upper 5 feet of the well will then be drilled out and backfilled with concrete to ground surface. Drilling services will be provided by a California C-57 licensed drilling contractor. The removed well materials will be placed in one steel DOT-rated drum, labeled, and transported to the Montrose property pending disposal. One composite sample will be collected from the drill cuttings for waste characterization purposes and analyzed for the presence of volatile organics and metals following EPA Methods 8260 and 6010/7000 series. Following characterization and profiling, the drum will be transported under signed manifest for land disposal or soil recycling as a non-hazardous waste.

Task 4: Reporting

A letter report will be prepared to summarize the field activities and laboratory results. The report will include a site location map, a well location map, a summary of the purge and analytical data in tabular format, and copies of the laboratory report, waste manifests, and well permit. The report will be reviewed and signed by a State of California registered professional. A draft report will be provided for review and comment.

Price Quotation

Earth Tech will provide the aforementioned environmental services at a fixed cost of \$5,817 as shown on the attached detailed cost estimate. This price quotation was prepared in accordance with the written agreement between Earth Tech and Montrose Chemical Corporation. The assumptions used during preparation of this price quotation are listed below:

- Los Angeles County will permit well abandonment by pressure grouting (using tremie pipe) and drilling out the upper 5 feet
- No workplan will be required prior to implementation
- The well will be accessible during normal working hours
- Montrose will coordinate, as necessary, with the EPA and Boeing/McDonnell-Douglas
- Depth to groundwater in well G-10 is approximately 65 to 70 feet

- Well G-10 is 4-inches in diameter, 200 feet in total depth, and is constructed of Schedule 40 PVC pipe with 40 feet of well screen
- The dedicated submersible pump is functional and can be used to purge the well
- Three well volumes must be purged at an estimated total of 255 gallons (5 drums)
- No duplicate samples, trip blanks, or equipment rinsate blanks will be required
- Laboratory analysis will be performed following standard turnaround
- The dedicated pump can be stored at the Montrose property following well abandonment
- Waste materials generated during field activities will be non-hazardous
- A final letter report of well abandonment activities is required

If the dedicated submersible pump is not functional, Earth Tech can provide a temporary sampling pump at an additional cost of \$350 (pump rental and labor). If you have any questions regarding this price quotation, please contact me at (562) 951-2053. Earth Tech appreciates the opportunity to submit this price quotation and looks forward to hearing from you soon.

Very truly yours,

EARTH TECH

Eric F. Peterson
Program Manager

Cc: Mr. Robert Howard - Latham & Watkins, California

Confirmation Report-Memory Send

Time : Jun-22-99 08:48am
Tel line 1 : 5626273109
Tel line 2 : 5626273109
Name : BOEING REALTY CORP,

Job number : 938
Date : Jun-22 08:38am
To : 819498529011
Document Pages : 06
Start time : Jun-22 08:38am
End time : Jun-22 08:48am
Pages sent : 06

Job number : 938

*** SEND SUCCESSFUL ***



Boeing Realty Corporation
4060 Lakewood Blvd., 6th Floor
Long Beach, CA 90808-1700
S. Mano Stavale, Senior Project Manager
Direct (562) 627-3014
Fax (562) 627-3109

Fax

To: Joann Omelas

From: Mano Stavale

Fax: 949-852-9011

Pages: 6

Phone:

Date: 6-22-99

CC:

Re:

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☐ For Your Files

• Comments:

If copy received incomplete or illegible
please contact Kim Nichols @ (562) 627-3075

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Boeing Realty Corporation
4060 Lakewood Blvd., 6th Floor
Long Beach, CA. 90808-1700
S. Mario Stavale, Senior Project Manager
Direct (562) 627-3014
Fax (562) 627-3109

Fax

To: Joann Ornelas

From: Mario Stavale

Fax: 949-852-9011

Pages: 6

Phone:

Date: 6-22-99

cc:

Re:

☐ **Urgent** ☐ **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **For Your Files**

● **Comments:**

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Confirmation Report-Memory Send

Time : Jun-22-99 08:34am
Tel line 1 : 5626273109
Tel line 2 : 5626273109
Name : BOEING REALTY CORP,

Job number : 937
Date : Jun-22 08:28am
To : 812065441572
Document Pages : 06
Start time : Jun-22 08:29am
End time : Jun-22 08:34am
Pages sent : 06
Job number : 937

*** SEND SUCCESSFUL ***



Boeing Realty Corporation
4060 Lakewood Blvd., 6th Floor
Long Beach, CA 90808-1700
S. Mario Stavale, Senior Project Manager
Direct (562) 627-3014
Fax (562) 627-3109

Fax

To: Dan Summers	
From: Mario Stavale	
Fax: (206)544-1572	Pages: 6
Phone:	Date: 6-22-99
CC:	
Re:	
<input type="checkbox"/> Urgent <input type="checkbox"/> For Review <input type="checkbox"/> Please Comment <input type="checkbox"/> Please Reply <input type="checkbox"/> For Your Files	
• Comments:	

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Direct (562) 627-3014
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To: Dan Summers

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